

**ICOM**

VHF AND UHF TRANSCEIVERS

**IC-V86**  
**IC-U86**

# 7 W Output Power and 1500 mW Audio

Made  
in  
**JAPAN**

**7 W output power plus new antenna provides 1.5 times\* more coverage**

\* Approximately, compared to 5.5 W radio (IC-V80). Wide open space. Communication range may differ depending on operating environment or weather conditions, etc. 7 W output power is only for the IC-V86.

**More audio, 1500 mW audio output**

**IP54 and MIL-STD 810G; rugged design against dust, water, vibration and shock. Perfect for outdoor use.**

**19 hours\* of long lasting battery life**

\* EX Hi power with BP-298. TX : RX : standby = 5 : 5 : 90 (3 sec. : 3 sec. : 54 sec. )  
(The Power Save function is set to "P-S.16")

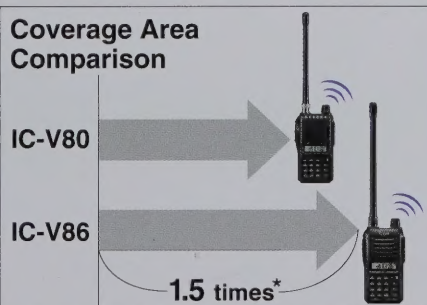
**Durable BNC antenna connector**

**Made in Japan quality and reliability**

**And more**

- User selectable Volume Level, VFO/Memory Channel selection control
- Supplied BC-240, battery charger with a charging control function that prolongs the life of the battery
- Integrated VOX function
- 200 memory channels, 1 Call channel and 6 scan edges
- Built-in CTCSS and DTCS encoder/decoder and Tone Scan
- Priority, program, memory, skip and tone scanning

## Coverage Area Comparison



\* Wide open space





## SPECIFICATIONS

GENERAL	IC-V86	IC-U86
Frequency range (Guaranteed range)	TX: 144–148 MHz RX: 136–174 MHz	TX: 430–450 MHz RX: 400–472 MHz
Type of emissions	F2D, F3E (FM, FM-N)	
Number of channels	207 channels (200 memory channels, 1 call channel and 6 scan edges)	
Antenna impedance	50 Ω	
Power supply requirement	7.5 V DC	
Operating temperature range	–20 °C to +60 °C, –4 °F to +140 °F	
Frequency stability	±2.5 ppm (–20 °C to +60 °C, –4 °F to +140 °F)	
Current drain TX (EX Hi/Hi/Mid/Low) RX (Max. audio)	1.6/1.4/1.0/0.5 A typical 450 mA typ. (INT SP), 200 mA typ. (EXT SP)	1.6/1.5/1.0/0.5 A typical 450 mA typ. (INT SP), 200 mA typ. (EXT SP)
Dimensions (W×H×D) (Projections not included)	58.6 × 112 × 30.5 mm, 2.3 × 4.4 × 1.2 in (with BP-298)	
Weight (Approximate)	300 g, 10.6 oz (with BP-298, FA-B57V)	290 g, 10.2 oz (with BP-298, FA-B57U)
TRANSMITTER		
Output power	7.0/5.5/2.5/0.5 W (EX Hi/Hi/Mid/Low)	5.5/4.2/0.5 W (EX Hi/Hi/Mid/Low)
Maximum frequency deviation	±5.0 kHz/±2.5 kHz (Wide/Narrow)	
Spurious emissions	Less than –60 dB	
External microphone connector	3-conductor 2.5 (d) mm (1/10")/2.2 kΩ	
RECEIVER		
Sensitivity	–124 dBm typical	–121 dBm typical
Squelch sensitivity	–126 dBm typical	–123 dBm typical
Selectivity (Wide/Narrow)	75 dB typical/70 dB typical	70 dB typical/68 dB typical
Intermodulation	65 dB typical	
Audio output power		
Internal speaker	1500 mW typical (with 8 Ω load)	
External speaker	550 mW typical (with 8 Ω load)	
External speaker connector	3-conductor 3.5 (d) mm (1/8")/ 8 Ω	

All stated specifications are subject to change without notice or obligation.

## Applicable U.S. Military Specifications &amp; IP Rating

Standard	MIL 810G	
	Method	Procedure
Low Pressure	500.5	I, II
High Temperature	501.5	I, II
Low Temperature	502.5	I, II
Temperature Shock	503.5	I-C
Solar Radiation	505.5	I
Rain Blowing/Drip	506.5	I, III
Humidity	507.5	II
Salt Fog	509.5	–
Dust Blowing	510.5	I
Vibration	514.6	I
Shock	516.6	I, IV

Also meets equivalent MIL-STD-810-C, -D, -E and -F.

## Ingress Protection Standard

Dust and Water	IP54 (Dust-protection, water resistance)
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## Supplied accessories : ( \* May differ, depending on transceiver version)

- BP-298/BP-264 battery pack
- BC-240, desktop charger
- BC-242, AC adapter
- MB-124, belt clip
- Antenna\*

## Countermeasures against Counterfeit Products

The "3D GENUINE Icom label" and "QR Code Genuineness Determination System" are attached for proof of authentication.

Check the Icom website for details : <http://www.icom.co.jp/world/genuine-info/>



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## OPTIONS

## BATTERY PACKS &amp; CASE



Battery pack type	Capacity	Operating time*
BP-298 Rechargeable Li-ion	2100 mAh (min.) 2250 mAh (typ.)	Up to 19 hours
BP-299 Rechargeable Li-ion	3050 mAh (min.) 3150 mAh (typ.)	Up to 27 hours
BP-264 Rechargeable Ni-MH	1400 mAh	Up to 12.5 hours
BP-263 AA (LR6) batteries × 6	—	—

\* EX Hi power. TX : RX : standby = 5 : 5 : 90 (3 sec. : 3 sec. : 54 sec.) (The Power Save function is set to "P-S.16")

## RAPID CHARGERS

BC-240 Rapid charger for BP-298/BP-299

BC-191 Rapid charger for BP-264



## DESKTOP CHARGER

BC-192 Regular charger for BP-264



## MULTI-CHARGER

BC-214N\* For BP-298/BP-299



## MULTI-CHARGER

BC-197\* For BP-264

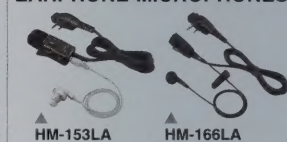


\* The AD-139/AD-120 charger adapters are supplied with the BC-214N/BC-197, depending on the charger version.

## SPEAKER-MICROPHONES



## EARPHONE-MICROPHONES



## HEADSETS

HS-94LWP Ear-hook type with a waterproof connector

HS-95LWP Behind-the-head type with a waterproof connector

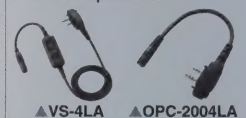
HS-97\* Throat type

\* Either the VS-4LA or OPC-2004LA is required when using the HS-97



## PTT SWITCH CABLE &amp; PLUG ADAPTER CABLE

VS-4LA For manual PTT operation  
OPC-2004LA For VOX operation



## CIGARETTE LIGHTER CABLE

CP-23L



## DC POWER CABLE



## CHARGER BRACKET

MB-130



## BELT CLIP

MB-124



## ANTENNAS

FA-B45V 144–148 MHz

FA-B57V 160 MHz

FA-B57U 430–450 MHz

## PROGRAMMING CABLES

OPC-478UC Handheld to PC USB cable

OPC-474 Handheld to handheld

## PROGRAMMING SOFTWARE

CS-V86 Programming software

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